Application No.: TBA 29137.114.00

## AMENDMENT TO THE ABSTRACT:

Please replace the abstract with the following:

-- Provided are a catalyst for hydrocarbon steam cracking for light olefin production and a method for preparing the same. The catalyst is a simple KMgPO<sub>4</sub> catalyst, a supported KMgPO<sub>4</sub> catalyst, or a KMgPO<sub>4</sub>-sintered catalyst. The supported KMgPO<sub>4</sub> catalyst is prepared by impregnating a carrier with an aqueous solution of a KMgPO<sub>4</sub> precursor and the KMgPO<sub>4</sub>-sintered catalyst is prepared by mixing a KMgPO<sub>4</sub> powder or a KMgPO<sub>4</sub> precursor powder with metal oxide followed by sintering. Provided is also a method for producing light olefins such as ethylene and propylene by steam cracking in the presence of the catalyst. When the catalyst comprising KMgSO<sub>4</sub> as a catalytic component is used in olefin production, the yield of olefins is increased and the amount of cokes deposited on the catalyst is reduced.